

#6

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/533310
Source: PCT
Date Processed by STIC: 5/12/5

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PCT

RAW SEQUENCE LISTING

DATE: 05/12/2005

PATENT APPLICATION: US/10/533,310

TIME: 08:16:09

Input Set : A:\Q87626 Sequence Listing.txt

Output Set: N:\CRF4\05122005\J533310.raw

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3 <110> APPLICANT: Meiji Seika, Ltd.
4     OKAKURA, Kaoru
5     YANAI, Koji
7 <120> TITLE OF INVENTION: NOVEL CELLULASE RESISTANT TO SURFACTANT
9 <130> FILE REFERENCE: Q87626
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/533,310
C--> 11 <141> CURRENT FILING DATE: 2005-04-29
11 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/014013
12 <151> PRIOR FILING DATE: 2003-10-31
14 <150> PRIOR APPLICATION NUMBER: JP 2002-318303
15 <151> PRIOR FILING DATE: 2002-10-31
17 <160> NUMBER OF SEQ ID NOS: 8
19 <170> SOFTWARE: PatentIn version 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 205
23 <212> TYPE: PRT
24 <213> ORGANISM: Humicola insolens
27 <220> FEATURE:
28 <221> NAME/KEY: mat_peptide
29 <222> LOCATION: (1)..(205)
31 <400> SEQUENCE: 1
33 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro
34 1                    5                    10                    15
37 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
38                20                25                30
41 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
42            35            40            45
45 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
46        50        55        60
49 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
50 65                70                75                80
53 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
54            85            90            95
57 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
58        100        105        110
61 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
62            115            120            125
65 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
66        130        135        140
69 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
70 145                150                155                160
73 Asp Ala Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
74            165            170            175

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77 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
78          180          185          190
81 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
82          195          200          205
85 <210> SEQ ID NO: 2
86 <211> LENGTH: 615
87 <212> TYPE: DNA
88 <213> ORGANISM: Humicola insolens
90 <400> SEQUENCE: 2
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93 cccggcaagg gcccggcgcc cgtgcggacg tgcgaccggt gggacaaccc gctgttcgac      120
95 ggcggaaca cgcgacgcg gtgcgacgcg ggcggcggcg cctacatgtg ctcgaccag      180
97 agcccggtgg cggtcagcga cgacctggcg tacggctggg cggccgtcaa cattgccggc      240
99 tccaacgaga ggcagtgggtg ctgcgcctgc tacgagctga ccttcaccag cgggcccgtg      300
101 gcgggcaaga ggatgattgt gcaggcgagc aacacgggag gcgatttggg gaacaaccac      360
103 tttgatattg ctatgcccgg cggtggcgctc ggtatcttca acgcctgcac cgaccagtac      420
105 ggcgcgcccc ccaacggctg gggccagcgc tacggcggca tcagccaacg ccacgagtgc      480
107 gacgccttcc ccgagaagct caagcccggc tgctactggc gctttgactg gttcctcaac      540
109 gccgacaacc cgagcgtcaa ctggcggcag gtcagctgcc cggccgagat tgtggccaag      600
111 agcggctgct cgcgt                                     615
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 205
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: A detergent-resistant cellulase
122 <400> SEQUENCE: 3
124 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro
125 1          5          10          15
128 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
129          20          25          30
132 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
133          35          40          45
136 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
137          50          55          60
140 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
141 65          70          75          80
144 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
145          85          90          95
148 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
149          100          105          110
152 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
153          115          120          125
156 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
157          130          135          140
160 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
161 145          150          155          160
164 Asp Pro Phe Pro Glu Lys Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
165          165          170          175

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168 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
 169 180 185 190
 172 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
 173 195 200 205

176 <210> SEQ ID NO: 4

177 <211> LENGTH: 205

178 <212> TYPE: PRT

179 <213> ORGANISM: Artificial Sequence

181 <220> FEATURE:

182 <223> OTHER INFORMATION: A detergent-resistant cellulase

184 <400> SEQUENCE: 4

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190 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
 191 20 25 30

194 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys
 195 35 40 45

198 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
 199 50 55 60

202 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
 203 65 70 75 80

206 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
 207 85 90 95

210 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
 211 100 105 110

214 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
 215 115 120 125

218 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
 219 130 135 140

222 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
 223 145 150 155 160

226 Asp Ala Phe Pro Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
 227 165 170 175

230 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
 231 180 185 190

234 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
 235 195 200 205

238 <210> SEQ ID NO: 5

239 <211> LENGTH: 205

240 <212> TYPE: PRT

241 <213> ORGANISM: Artificial Sequence

243 <220> FEATURE:

244 <223> OTHER INFORMATION: A detergent-resistant cellulase

246 <400> SEQUENCE: 5

248 Gln Ser Gly Ser Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro
 249 1 5 10 15

252 Ser Cys Ala Trp Pro Gly Lys Gly Pro Ala Pro Val Arg Thr Cys Asp
 253 20 25 30

256 Arg Trp Asp Asn Pro Leu Phe Asp Gly Gly Asn Thr Arg Ser Gly Cys

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257          35          40          45
260 Asp Ala Gly Gly Gly Ala Tyr Met Cys Ser Asp Gln Ser Pro Trp Ala
261          50          55          60
264 Val Ser Asp Asp Leu Ala Tyr Gly Trp Ala Ala Val Asn Ile Ala Gly
265 65          70          75          80
268 Ser Asn Glu Arg Gln Trp Cys Cys Ala Cys Tyr Glu Leu Thr Phe Thr
269          85          90          95
272 Ser Gly Pro Val Ala Gly Lys Arg Met Ile Val Gln Ala Ser Asn Thr
273          100          105          110
276 Gly Gly Asp Leu Gly Asn Asn His Phe Asp Ile Ala Met Pro Gly Gly
277          115          120          125
280 Gly Val Gly Ile Phe Asn Ala Cys Thr Asp Gln Tyr Gly Ala Pro Pro
281          130          135          140
284 Asn Gly Trp Gly Gln Arg Tyr Gly Gly Ile Ser Gln Arg His Glu Cys
285 145          150          155          160
288 Asp Pro Phe Pro Glu Glu Leu Lys Pro Gly Cys Tyr Trp Arg Phe Asp
289          165          170          175
292 Trp Phe Leu Asn Ala Asp Asn Pro Ser Val Asn Trp Arg Gln Val Ser
293          180          185          190
296 Cys Pro Ala Glu Ile Val Ala Lys Ser Gly Cys Ser Arg
297          195          200          205

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300 <210> SEQ ID NO: 6

301 <211> LENGTH: 27

302 <212> TYPE: DNA

303 <213> ORGANISM: Artificial Sequence

305 <220> FEATURE:

306 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

308 <400> SEQUENCE: 6

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312 <210> SEQ ID NO: 7

313 <211> LENGTH: 27

314 <212> TYPE: DNA

315 <213> ORGANISM: Artificial Sequence

317 <220> FEATURE:

318 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

320 <400> SEQUENCE: 7

321 cttgagctcc tcggggaagg cgtcgca

27

324 <210> SEQ ID NO: 8

325 <211> LENGTH: 30

326 <212> TYPE: DNA

327 <213> ORGANISM: Artificial Sequence

329 <220> FEATURE:

330 <223> OTHER INFORMATION: A primer for site-directed mutagenesis

332 <400> SEQUENCE: 8

333 gagctcctcg gggaaggggt cgcaactcgtg

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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date